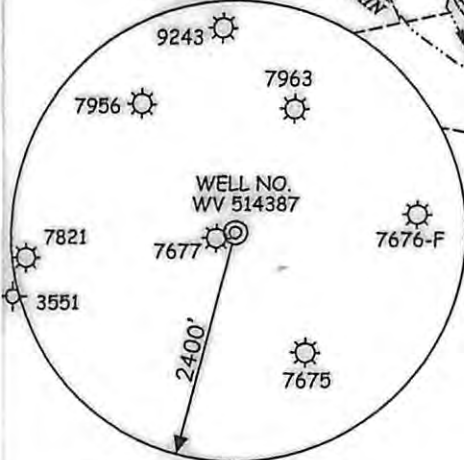
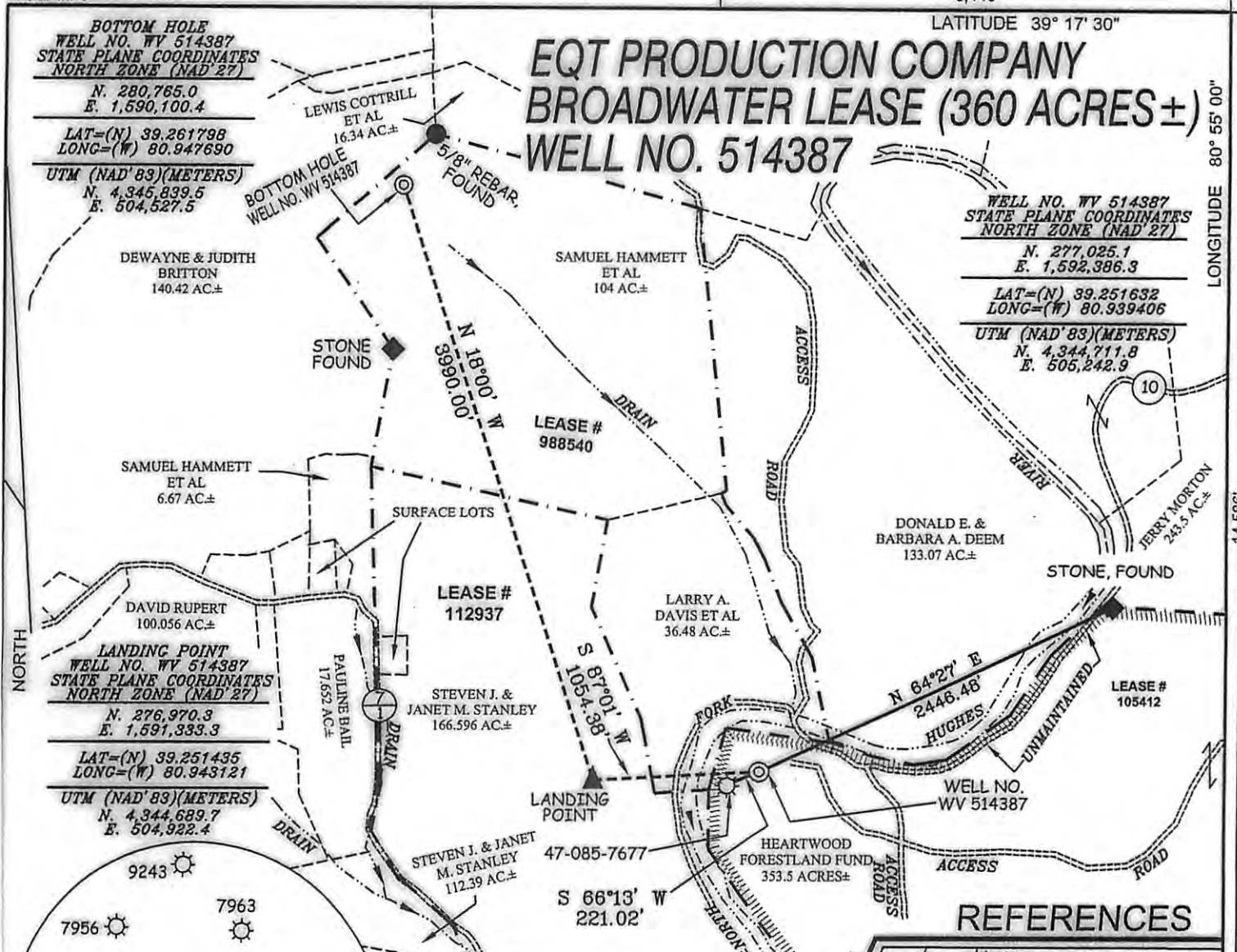


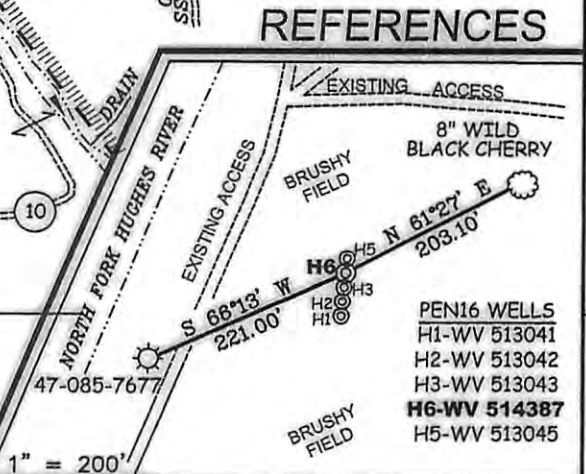
**BOTTOM HOLE**  
**WELL NO. WV 514387**  
**STATE PLANE COORDINATES**  
**NORTH ZONE (NAD'27)**  
 N. 280,765.0  
 E. 1,590,100.4  
 LAT=(N) 39.261798  
 LONG=(W) 80.947690  
**UTM (NAD'83)(METERS)**  
 N. 4,345,839.5  
 E. 504,527.5

# EQT PRODUCTION COMPANY BROADWATER LEASE (360 ACRES±) WELL NO. 514387

**WELL NO. WV 514387**  
**STATE PLANE COORDINATES**  
**NORTH ZONE (NAD'27)**  
 N. 277,025.1  
 E. 1,592,386.3  
 LAT=(N) 39.251632  
 LONG=(W) 80.939406  
**UTM (NAD'83)(METERS)**  
 N. 4,344,711.8  
 E. 505,242.9



- NOTES ON SURVEY**
1. TIES TO WELLS, CORNERS & REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
  2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 197 PAGE 568, DEED BOOK 285 PAGE 488, AND DEED BOOK 288 PAGE 190.
  3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RITCHIE COUNTY IN JULY, 2011.
  4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK).



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677  
*Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE SEPTEMBER 20, 20 12  
 OPERATORS WELL NO. WV 514387  
 API WELL NO. 47-85-10014 H6 A  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7566P514387R2 (357-45)  
 PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1000'

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 787.5' (GROUND) - 795' (PROPOSED) WATERSHED NORTH FORK HUGHES RIVER  
 DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 353.50±  
 ROYALTY OWNER JEFFERSON BROADWATER HEIRS ET AL (360 AC.±), JOELYNN FAMILY PRESERVATION TRUST (140.48 AC. ±), & RAYMOND HARDMAN (178 AC.±)  
 PROPOSED WORK: LEASE NO. 105412 / 988540 / 112937

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
 ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 **05/31/2013**

COUNTY NAME  
 PERMIT



47-085-10014

WATER SAMPLES

# BROADWATER LEASE WELL NO. 514387

page of



Professional Energy Consultants  
A DIVISION OF SHERIDAN LAND SURVEYING



3000 CHERRY  
P.O. BOX 100  
MARTINSBURG, WV 26151

Energy & Environmental  
CONSULTANTS

2000 Professional Survey  
Map No. 40-0000  
Page 001

TOPO SECTION OF:  
PENNSBORO, WV 7.5' QUAD.

OPERATOR:  
EQT PRODUCTION COMPANY  
115 PROFESSIONAL PLACE  
P.O. BOX 280